

RouteSync

Synchronize flight route data delivery from planning systems to the aircraft FMC

Operational impact

Reduce departure delays, shorten turnaround time, and eliminate manual route entry errors by delivering accurate, current route data directly to the aircraft at departure. Crews operate with the latest information available, improving on-time performance and reducing operational variability.

Business challenge

Flight route data must reach the aircraft quickly, yet many airlines rely on manual entry, static routes, or fragmented workflows. Small delays and errors repeat across flights, increasing turnaround time, driving delay costs, and making it difficult to deliver updated routes close to departure.

The RouteSync solution

RouteSync automatically transfers flight route data from airline planning systems to the aircraft FMC using ACARS. Pilots request and load the route directly without manual entry, ensuring current data reaches the aircraft at departure and reducing delays, errors, and operational variability.

Key features

- Automatically deliver route data to the aircraft FMC
- Enable pilot-requested route loading on demand
- Deliver updated routes close to departure
- Support full runway-to-runway FMC message sets
- Record ACARS AOC messages automatically
- Integrate with existing flight planning systems

Key benefits

- Reduce aircraft turnaround time
- Lower delay-related operational costs
- Minimize route entry errors
- Improve route accuracy at departure
- Reduce crew and dispatcher workload
- Enable more predictable departures

Proven operational impact

- Reduce turnaround time by 5–10 minutes per flight
- Achieve over 99% route delivery reliability
- Lower network delay cost across operations
- 24% reduction in labor hours



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Why RouteSync stands apart

- Delivers route data only when pilots request it
- Reliably delivers full route data during late changes
- Standardizes route delivery across mixed fleets
- Manages complete FMC message sets without truncation
- Records ACARS AOC messages as part of execution
- Built with direct OEM access to FMC message sets

How RouteSync delivers value

Reduce turnaround time

Remove manual FMC data entry and verification during pre-departure.

Deliver current routes at departure

Send updated routes close to departure so crews operate with the latest data.

Minimize route entry errors

Eliminate transcription risk with direct system-to-system route delivery.

Improve route accuracy

Ensure pilots load the exact route dispatch planned into the FMC.

Reduce crew and dispatcher workload

Remove repetitive entry and verification tasks under time pressure.

Enable post-flight analysis

Automatically record ACARS AOC messages for operational review.

Seamless integrations across operations

Aircraft Flight Management and Data Link Systems

RouteSync interfaces directly with aircraft flight management computers and ACARS data link infrastructure to deliver route data from planning systems to the aircraft.

Dispatch Systems

RouteSync receives flight data from airline dispatch systems and prepares it for reliable delivery to the aircraft.

Is your operation ready to engage?

Talk with Boeing to evaluate how RouteSync can reduce departure delays, eliminate manual route entry errors, and shorten turnaround time across your fleet.



Learn more about RouteSync at
services.boeing.com/route-sync

